

CRITICAL CARE/CARDIAC SURGERY-ICU (CS-ICU) ROTATION GOALS PGY7

Rotation Specific Goals and Objectives with Progressive Changes in Responsibility & Criteria for Advancement

1. OVERVIEW

- 1.1. The *ACGME Program Requirements for Graduate Medical Education in Maternal-Fetal Medicine, 2016*, provides the format required for approval of an MFM fellowship and serves as the basis for the organization of the fellowship and goal and objectives listed below.
- 1.2. *The Guide to Learning in Maternal-Fetal Medicine, ABOG 2015* outlines the full breadth and depth of knowledge required of the MFM fellow and serves as the basis for educational content of the fellowship and goal and objectives listed below.

2. GENERAL CONSIDERATIONS

The practice of obstetrics and gynecology and maternal-fetal medicine requires a commitment to professional as well as personal growth. In addition to practicing technical skills, physicians should cultivate the ability to expand and apply those skills. Knowledge of ethical principles, communication skills, and the ability to acquire and continually update information are important components of professional development. The Accreditation Council on Graduate Medical Education (ACGME) identified six core competencies that should be incorporated into residency and subspecialty fellowship programs.

3. COMPETENCY BASED OBJECTIVES

3.1. PATIENT CARE & PROCEDURAL SKILLS

- 3.1.1. Fellows must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.
- 3.1.2. Fellows must be able to competently perform all medical, diagnostic, and surgical procedures considered essential for the area of practice.
- 3.1.3. Fellows must demonstrate competence in the management of complicated pregnancies, including: the treatment of medical and surgical complications of pregnancy; care of pregnant women with medical co-morbidities; fetal evaluation; genetic evaluation of women, families, and fetuses; ultrasound and prenatal diagnosis; critical care of pregnant women; interpretation of perinatal pathology; and, care for patients requiring cesarean hysterectomy.
- 3.1.4. Fellows must demonstrate competence in performing the following procedures; cervical cerclage; antepartum fetal assessment (biophysical profile, non-stress test (NST), etc.); amniocentesis at fewer than 24 weeks gestation; targeted maternal and fetal imaging using ultrasonography; external cephalic version; intrapartum management of multiple gestations, including internal version of the second twin; non-vertex vaginal delivery; and, operative vaginal delivery.
- 3.1.5. Fellows must demonstrate competence in obstetrical critical care, which must include training in the management of acute peripartum medical and surgical complications;
- 3.1.6. Fellows must demonstrate competence in infectious disease as it relates to pregnancy and the puerperium, including the effects of maternal infection on the fetus and newborn

3.2. MEDICAL KNOWLEDGE

- 3.2.1. Fellows must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.

- 3.2.2. Fellows must demonstrate knowledge of: the physiology and pathophysiology of diseases occurring in pregnancy; both normal and abnormal newborn physiology; genetics (including prenatal screening and diagnosis), genomics, teratology, and dysmorphology.
- 3.2.3. Fellows must demonstrate knowledge of -the indications, techniques, complications, and follow-up of the following procedures: cesarean hysterectomy; cervical cerclage; antepartum fetal assessment (biophysical profile, NST, etc.); targeted maternal and fetal imaging using ultrasonography; -pregnancy termination; invasive fetal diagnostic and therapeutic procedures, including amniocentesis at fewer than 24 weeks gestation; chorionic villus sampling; umbilical cord blood sampling; fetal transfusion; and fetal shunt placement; external cephalic version; intrapartum management of multiple gestations – internal version of second twin; non-vertex vaginal delivery; and operative vaginal delivery.
- 3.2.4. Fellows must demonstrate knowledge of obstetrical critical care, including the management of acute peripartum medical and surgical complications;
- 3.2.5. Fellows must demonstrate knowledge of infectious diseases as they relate to pregnancy and the puerperium, including the effects of maternal infection on the fetus and newborn

3.3. PRACTICE-BASED LEARNING AND IMPROVEMENT

- 3.3.1. Fellows must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning.
- 3.3.2. Fellows are expected to develop skills and habits to be able to identify strengths, deficiencies, and limits in one's knowledge and expertise; set learning and improvement goals; identify and perform appropriate learning activities; systematically analyze practice using quality improvement methods, and implement changes with the goal of practice improvement; incorporate formative evaluation feedback into daily practice; locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems) ; use information technology to optimize learning; participate in the education of patients, families, students, residents and other health professionals; participate in multidisciplinary inter-professional conferences devoted to care of the at-risk mother, fetus, and newborn

3.4. INTERPERSONAL AND COMMUNICATION SKILLS

- 3.4.1. Fellows must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals
- 3.4.2. Fellows are expected to; communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds; communicate effectively with physicians, other health professionals, and health related agencies; work effectively as a member or leader of a health care team or other professional group; act in a consultative role to other physicians and health professionals; and, maintain comprehensive, timely, and legible medical records

3.5. PROFESSIONALISM

- 3.5.1. Fellows must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.
- 3.5.2. Fellows are expected to demonstrate compassion, integrity, and respect for others; responsiveness to patient needs that supersedes self-interest; respect for patient privacy and autonomy; accountability to patients, society and the profession; sensitivity and responsiveness to a diverse patient population.

3.6. SYSTEMS-BASED PRACTICE

- 3.6.1. Fellows must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care.
- 3.6.2. Fellows are expected to work effectively in various health care delivery settings and systems relevant to MFM; coordinate patient care within the health care system relevant to MFM; incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population based care as appropriate; advocate for quality patient care and optimal patient care systems; work in inter-professional teams to enhance patient safety and improve patient care quality; participate in identifying system errors and implementing potential systems solutions.

4. ROTATION SPECIFIC GOALS – CRITICAL CARE/ CARDIAC SURGERY- ICU (CS-ICU)

- 4.1. The CS-ICU Rotation is designed so that each fellow, under the direction of members of the CS-ICU teaching faculty and will be exposed to a sufficient breadth and depth of the subspecialty to fulfill
 - 4.1.1. The objectives in the Guide to Learning in Fetal-Fetal Medicine, ABOG 2015, Sec XII and XIV: “The fellow should be able to diagnose and outline a plan of management for obstetrical complications, including acute peripartum emergencies and obstetric critical care”...“The fellow should be able to diagnose and manage medical and surgical complications of pregnancy that may affect the mother, fetus and neonate.”
 - 4.1.2. Competency IV.A.5.a).(2).(a).(vi) “The fellow should be able to diagnose and outline a plan of management for critical care of pregnant women as described in the *“ACGME Program Requirements for Graduate Medical Education in Maternal-Fetal Medicine, 2016*”
- 4.2. The fellow shall function as a member of the CS-ICU team under the direction of the Division of Surgical Clinical Care attending faculty. The fellow shall participate in the management of the full spectrum of critical care patients in the CS-ICU.
- 4.3. The experience in the CS-ICU is intended to prepare the fellow to diagnose and manage the critically ill gravida and post-partum patient with complications such as acute blood loss and hemorrhagic shock, adult respiratory distress syndrome, amniotic fluid embolism, cardiac arrest, congestive heart failure and pulmonary edema, eclampsia, hypertensive crisis and severe pre-eclampsia, trauma, myocardial infarction, peripartum cardiomyopathy, pulmonary embolism, respiratory failure, septic shock, diabetic ketoacidosis and hyperglycemic hyperosmolar coma, acute thyrotoxicosis
- 4.4. The fellow shall be able to describe the indications for and complications of invasive hemodynamic monitoring and outline a plan of management for critically-ill patients with arterial lines, central venous pressure catheter monitoring, pulmonary artery catheter monitoring and mechanical ventilation.
- 4.5. The fellow shall become familiar with diagnostic tools such as electrocardiography, chest X-rays, echocardiography, pulmonary function tests, and cardiac catheterizations and be able to utilize them to assess disease states during pregnancy.
- 4.6. The fellow shall be able to treat and be able to recognize the side effects of drugs used in the management of critically ill patients such as; isotropic agents, diuretics, anticoagulants, vasoactive agents, anti-hypertensive agents, drugs for cardioversion etc.
- 4.7. The fellow shall be able to counsel women who have survived a critical care event about prognosis in this pregnancy and risks of recurrence with future pregnancies.

- 4.8. It is not anticipated that the fellow upon completing the rotation shall be able to function as an Obstetric Intensive Care subspecialist. Rather the fellow shall develop a familiarity with, and an understanding of the diagnostic and therapeutic modalities utilized in the management of the critically ill patient. This experience shall serve as a foundation upon which further skills and knowledge can be added so that the Educational Objectives and Competencies listed above can, by the completion of the fellowship, be met with respect to the critically ill patient. [8]
- 4.9. During the CS-ICU rotation, the fellow shall have no assigned MFM or Ob/Gyn duties, including night and weekend call.
- 4.10. Additional Related Training
 - 4.10.1. The ACLS requirement for completion of residency training should be renewed during fellowship training
 - 4.10.2. The NALS requirement for completion of residency training should be renewed during fellowship training

5. COMPETENCY BASED CRITERIA for ADVANCEMENT and PROGRESIVE CHANGES in RESPONSIBILITY

5.1. Patient Care & Procedural Skills (PC)

5.1.1.PC 1 –Labor and Delivery Procedures

- 5.1.1.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.1.1.1. The advancing second year fellow with supervision is expected to; identify appropriate procedures for complex obstetrical patients; perform complex obstetrical procedures; manage surgical complications; collaborate with and provides subspecialty-specific consultation to other members of the health care team, with supervision
- 5.1.1.2. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.1.2.PC 2: Sonographic Diagnosis

- 5.1.2.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.1.2.2. The advancing second year fellow with supervision is expected to; perform detailed fetal assessment; perform appropriate procedures for prenatal diagnosis or therapy; anticipate, diagnose, and manage complications associated with prenatal diagnostic procedures; collaborate with and provide subspecialty-specific consultation to other members of the health care team.
- 5.1.2.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.1.3.PC 3: Medical Complications of Pregnancy

- 5.1.3.1. . The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.

- 5.1.3.2. The advancing second year fellow with supervision is expected to; manage complex medical comorbidities in pregnancy; co-manage patients in critical care settings; collaborate with and provides evidence-based subspecialty-specific consultation to other members of the health care team.
- 5.1.3.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.1.4.PC 4: Obstetrical Complications

- 5.1.4.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.1.4.2. The advancing second year fellow with supervision is expected to; manage complex obstetrical complications; collaborate with and provides evidence-based subspecialty-specific consultation to other members of the health care team.
- 5.1.4.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.2. Medical Knowledge (MK)

5.2.1.MK 1: Pathology, Anatomy, and Physiology

- 5.2.1.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.2.1.2. The advancing second year fellow is expected to; demonstrate knowledge of metabolic and endocrine functions of the placenta; demonstrates knowledge of clinicopathologic correlation between adverse perinatal outcome and specific etiologies; demonstrates advanced knowledge of newborn adaptation.
- 5.2.1.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.2.2.MK 2: Medical Complications of Pregnancy

- 5.2.2.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.2.2.2. The advancing second year fellow is expected to; demonstrate knowledge of treatment modalities of complex medical comorbidities in pregnancy; demonstrate knowledge of critical care management.
- 5.2.2.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.2.3.MK 3: Obstetrical Complications

- 5.2.3.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.2.3.2. The advancing second year fellow is expected to; demonstrate knowledge of treatment modalities of complex obstetrical complications; demonstrate knowledge of obstetric anesthesia principles and complications; demonstrates knowledge of neonatology principles and complications,

- 5.2.3.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.2.4.MK 4: Genetic Principles

- 5.2.4.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.2.4.2. The advancing second year fellow is expected to; demonstrate knowledge of advanced genetic principles and uncommon hereditary syndromes; demonstrate knowledge of advanced genetic testing.
- 5.2.4.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.2.5.MK 5: Prenatal Imaging and Diagnosis

- 5.2.5.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.2.5.2. The advancing second year fellow is expected to; apply knowledge of imaging modalities and diagnostic techniques for prenatal diagnosis; demonstrate knowledge of prognosis for specific fetal anomalies and management options, including pregnancy termination; applies knowledge of abnormal fetal growth and placentation.
- 5.2.5.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.3. System Based Practice

5.3.1.SBP 1: Computer Systems

- 5.3.1.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.3.1.2. The second year fellow, having completed the first year, is expected to expand and develop the proficiencies and competencies listed above, and to begin to use the EMR to its full potential, and facilitate integration of computer-based communication with the patient care team
- 5.3.1.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.3.2.SBP 2: Value-based Patient Care

- 5.3.2.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.3.2.2. The advancing second year fellow, with supervision, is expected to; apply knowledge of maternal-fetal medicine guideline-based care; incorporate cost-awareness into the development of diagnostic and treatment plans; coordinate personnel and resources to facilitate value-based care.
- 5.3.2.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-

FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION
for PGY8 Goals & Objectives.

5.4. Practice-Based Learning and Improvement

5.4.1.PBLI 1: Scholarly Activity

- 5.4.1.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.4.1.2. The advancing second year fellow is expected to; execute a hypothesis-driven or hypothesis-generating scholarly thesis, under the direction of a research mentor; apply knowledge of advanced study design and statistical methodology to thesis and other research; comply with research oversight regulations.
- 5.4.1.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.4.2.PBLI 2: Quality Improvement (QI)

- 5.4.2.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.4.2.2. The advancing second year fellow with supervision is expected to; continue to develop a QI project, employing methods to measure and analyze the data.
- 5.4.2.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.4.3.PBLI 3: Education of Team Members

- 5.4.3.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives.
- 5.4.3.2. The advancing second year fellow with supervision is expected to; teach residents, medical students, and other health care professionals in a formal didactic setting; organize didactic educational activities, including determination of educational content.
- 5.4.3.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.5. Professionalism

5.5.1.PROF 1: Professional Ethics and Accountability

- 5.5.1.1.
- 5.5.1.2. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.5.1.3. The advancing second year fellow is expected to; acknowledge errors with program director, faculty members, and/or patients; respond well to constructive criticism; take on responsibility related to learning, coordination of care, patient care, Continuous Quality Improvement (CQI), and compliance issues.
- 5.5.1.4. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.5.2.PROF 2: Compassion, Integrity, and Respect for Others

- 5.5.2.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.5.2.2. The advancing second year fellow is expected to; consistently shows compassion, integrity, and respect for patients who decline medical advice, request un-indicated tests or treatments, or have psychiatric comorbidities, and, for team members experiencing conflict or high stress; modify his/her own behavior based on feedback to improve his/her ability to demonstrate compassion, integrity, and respect for others.
- 5.5.2.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.6. Interpersonal and Communication Skills

5.6.1.ICS 1: Teamwork and Communication with Physicians & Other Health Professionals

- 5.6.1.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.6.1.2. The advancing second year fellow is expected to; works effectively in interprofessional and interdisciplinary health care teams; participates in effective transitions of care and team debriefing; communicate effectively with physicians and other health care professionals regarding patient care.
- 5.6.1.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

5.6.2.ICS 2: Communication with Patients and Families

- 5.6.2.1. The starting second year fellow, having completed the first year is expected to expand and develop the proficiencies and competencies listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION for PGY6 Goals & Objectives
- 5.6.2.2. The advancing second year fellow is expected to; communicate effectively with patients and families across a broad range of socio-economic and cultural backgrounds; communicate effectively when counseling patients and families in stressful, emergent, and complex situations.
- 5.6.2.3. The second year fellow, as he or she approaches the end of the year may begin to advance to the level of the third year fellow as listed in the CLINICAL-MATERNAL-FETAL MEDICINE (MFM) ROTATION and FETAL MEDICINE (FM) SUBROTATION for PGY8 Goals & Objectives.

Recommended textbooks

- Chestnut's Obstetric Anesthesia: Principles and Practice, Elsevier 5th Ed, 2014
- Shnider and Levinson's Anesthesia for Obstetrics. M Suresh Ed. LWW, 5th Ed, 2013

This list is by no means exclusive and should form the nucleus of a far more extensive library.